

Message Text

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PAGE 01 STATE 208518 POSS DUPE
ORIGIN EB-08

INFO OCT-01 ISO-00 COME-00 DODE-00 DOE-15 SOE-02
NSCE-00 SSO-00 CIAE-00 INR-10 NSAE-00 INRE-00
TRSE-00 ICAE-00 /036 R

DRAFTED BY EB/ITP/EWT:BRFURNESS:DLM
APPROVED BY EB/ITP/EWT:WAROOT
COMMERCE/OEA:CSEASWORD (AD REF)
DEFENSE/OSD:LJAMES
DOE:JKRATZ
NSC:BHUBERMAN
OSTP:AMORRISSEY

-----112036 170554Z /23

O 162340Z AUG 78
FM SECSTATE WASHDC
TO AMEMBASSY PARIS IMMEDIATE

C O N F I D E N T I A L STATE 208518

USOECD,EXCON

E.O. 11652:XGDS-1

TAGS: ESTC, COCOM

SUBJECT: LIST REVIEW: US SUBMISSION ON IL 1362

1. DEFINITION: LC MEANS "LOWER CASE."
2. US DEL AUTHORIZED TO SUBMIT COUNTERPROPOSAL ON IL 1362 AS FOLLOWS: (BEGIN TEXT)

SUBMISSION BY THE UNITED STATES DELEGATION
(IL 1362)

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PAGE 02 STATE 208518 POSS DUPE

- (A) COCOM DOC. REV (78)2
(B) COCOM DOC. REV (78)7, ATTACHMENT 18

I. PROPOSED DEFINITION:

THE UNITED STATES PROPOSES THE ADDITION OF THE FOLLOWING
SUB-ITEM COVERING ACOUSTIC EMISSION TEST EQUIPMENT:

(LC E). ACOUSTIC EMISSION (AE) SYSTEMS FOR NON-DESTRUCTIVE MONITORING, TESTING AND EVALUATION OF STRUCTURAL INTEGRITY OF MATERIALS, SYSTEMS AND SYSTEM COMPONENTS, AS FOLLOWS:

(LC I). ACOUSTIC EMISSION (AE) EQUIPMENT AND SYSTEMS CONSISTING OF MORE THAN ONE CHANNEL WHERE ANY CHANNEL CONTAINS ANY OF THE FOLLOWING COMPONENTS:

(1) AN AE SENSOR HAVING ANY OF THE FOLLOWING CHARACTERISTICS:

(A) HAVING A FREQUENCY RANGE LESS THAN 100 KHZ AND/OR GREATER THAN 1 MHZ; OR

(B) HAVING A MAXIMUM SENSITIVITY OF 70 DB OVER THE FREQUENCY RANGE; OR

(C) RATED FOR OPERATION BELOW 0 DEGREES C OR ABOVE 70 DEGREES C;

(2) AE PROCESSOR OR A PROCESSOR MODULE CAPABLE OF HANDLING INPUT SIGNALS FROM MORE THAN ONE AE SENSOR;

(LC II). PARTS, COMPONENTS, AND ASSEMBLIES SPECIFICALLY DESIGNED FOR USE IN AE SYSTEMS WITH MORE THAN ONE CHANNEL.
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PAGE 03 STATE 208518 POSS DUPE

II. JUSTIFICATION

THE PROPOSAL BY THE UNITED KINGDOM (REF A) WOULD EFFECTIVELY DECONTROL VIRTUALLY ALL VIBRATION TESTS EQUIPMENT WITH THE USE OF THE STATEMENT "...ESPECIALLY DESIGNED FOR MILITARY USE..." AND BY REDEFINING THIS TYPE OF EQUIPMENT ON THE IML. THE UNITED STATES SEES NO WAY TO DIFFERENTIATE BETWEEN VIBRATION TEST EQUIPMENT DESIGNED ONLY FOR MILITARY USE. CONSEQUENTLY, EQUIPMENT PRESENTLY EMBARGOED AND USED IN THE MILITARY SECTOR WOULD BE FREED FROM EMBARGO BY THE UNITED KINGDOM'S PROPOSAL BECAUSE IT IS NOT SPECIALLY DESIGNED FOR MILITARY USE. THIS EQUIPMENT IS CONSIDERED STRATEGICALLY SIGNIFICANT BY THE UNITED STATES AND TO REMOVE THAT EMBARGO WOULD SIGNIFICANTLY ENHANCE THE COMMUNIST MILITARY MANUFACTURING CAPABILITY, PARTICULARLY IN THE AEROSPACE (AIRCRAFT AND MISSILES) AREA.

THE UNITED STATES PROPOSAL (REF B) IS CONSIDERED TO HAVE ENOUGH FLEXIBILITY TO ALLOW THE SHIPMENT OF STRICTLY CIVIL-USE VIBRATION TEST EQUIPMENT AND EMBARGO THAT EQUIPMENT HAVING SIGNIFICANT STRATEGIC USE.

THE UNITED STATES PROPOSES TO AMEND ITS EARLIER PROPOSAL BY INCLUDING ACOUSTIC EMISSION SYSTEMS. ALTHOUGH THESE ARE NOT ACTIVE OR DESTRUCTIVE VIBRATION TEST SYSTEMS, THE GENERAL CATEGORY OF VIBRATION TEST SYSTEMS APPEARS THE

MOST LOGICAL ENTRY.

AE SYSTEMS ARE USED TO INSPECT LARGE PRESSURE VESSELS AND TANKS DURING MANUFACTURE, FOR SAFETY ASSURANCE AT REGULAR INSPECTIONS AND FOR MONITORING WHILE IN USE. ON-GOING R AND D INCLUDES AE APPLICATIONS TO LARGE WELDED STRUCTURES SUCH AS HULLS AND OTHER NAVAL SYSTEMS, AIRCRAFT AND AIRCRAFT PARTS, ROCKETS, STEEL STRUCTURES FOR BUILDINGS, PIPE-CONFIDENTIAL

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PAGE 04 STATE 208518 POSS DUPE

LINE, BRIDGE BEAMS, SUSPENSION CABLES AND A NUMBER OF OTHER APPLICATIONS. OF PARTICULAR CONCERN FOR THE PURPOSE OF EXPORT CONTROLS IS THE POTENTIAL APPLICATION OF AE SYSTEMS AND TECHNIQUES IN CONJUNCTION WITH NUCLEAR REACTORS AND NUCLEAR REACTOR PROPULSION SYSTEMS ESPECIALLY IN SUBMARINES. FOR EXAMPLE, AE IS CONSIDERED TO BE A PROMISING ADVANCED TECHNOLOGY FOR REMOTE CONTROL USE IN MONITORING, MAINTENANCE AND REPAIR OF NUCLEAR REACTOR COMPONENT WELDS, WHERE HIGH TEMPERATURES AND RADIATION PRECLUDES THE USE OF MORE CONVENTIONAL METHODS. CHRISTOPHER

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NNN

Message Attributes

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